PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER ACTION as we	see Form PCT/ISA/220 Il as, where applicable, item 5 below.	
PC-9480 International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)	
	28/03/2005	30/03/2004	
PCT/JP2005/006526 Applicant	28/03/2003	30,00,200	
- приносите			
SHOWA DENKO PLASTIC PROD	UCTS CO., LTD.		
This International Search Report has be according to Article 18. A copy is being	een prepared by this International Searching Au transmitted to the International Bureau.	thority and is transmitted to the applicant	
	sts of a total of sheets. by a copy of each prior art document cited in th	is report.	
Basis of the report a. With regard to the language, the language in which it was filed,	he international search was carried out on the b unless otherwise indicated under this item.	asis of the international application in the	
· -	nal search was carried out on the basis of a tran	slation of the international application furnished t	
b. With regard to any nuc	cleotide and/or amino acid sequence disclose	ed in the international application, see Box No. I.	
2. Certain claims were 1	ound unsearchable (See Box II).		
3. Unity of invention is	lacking (see Box III).		
4. With regard to the title ,			
L	s submitted by the applicant. blished by this Authority to read as follows:		
the text has been esta	billistied by this Authority to read as telleries.		
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P. Milah annual to the object.			
5. With regard to the abstract, the text is approved as	s submitted by the applicant.		
the tout has been esta	blished according to Bule 38 2(b) by this Auth	ority as it appears in Box No. IV. The applicant	
may, within one month	n from the date of mailing of this international se	earch report, submit comments to this Authority.	
6. With regard to the drawings ,			
a. the figure of the drawings to l	be published with the abstract is Figure No	1	
	by the applicant.		
	y this Authority, because the applicant failed to		
	y this Authority, because this figure better chara	acterizes the invention.	
b. none of the figures is	to be published with the abstract.		

International application No.

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Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

A method is provided for producing a bag with a mouth member (1) by liquidtightly melt-bonding a mouth member (1) comprising a thermoplastic resin and a bag unit comprising a relatively soft flexible film (2), in which uniform surface temperature of the mouth member (1) is realized, generation of an A-shaped gap (22) is prevented, and a bag with a mouth member (1) excellent in the liquidtightness of the meltbonded part between the mouth member (1) and the bag unit is produced; and also a production apparatus therefor is provided. The method comprises a preheating step of heating a tubular mouth member (1) while rotating it around the cylinder axis thereof, and a melt-bonding step of inserting the heated mouth member (1) into the opening part of a bag unit and pressing, and thereby melt-bonding the mouth member (1) to the opening part of the bag unit.

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International Application No PCT/JP2005/006526

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B29C65/02 B29B A61J1/10 B31B19/84 B29B13/02 According to International Patent Classification (IPC) or to both national classification and IPC Minimum documentation searched (classification system followed by classification symbols) B31B B65B B29C B29B A61J Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages Category ° 1-7,9 ${
m TO}$ WO 2004/039562 A (SHOWA DENKO PLASTIC Ρ,Χ PRODUCTS CO., LTD; MIZUO, TAKAYUKI; NAKAGAWA, TERU) 13 May 2004 (2004-05-13) page 12, line 18 - line 21 1-7,9PATENT ABSTRACTS OF JAPAN P,X vol. 2003, no. 12, 5 December 2003 (2003-12-05) <u>-& JP 2004 148578</u> A (SHOWA DENKO PLASTIC PRODUCTS CO LTD), 27 May 2004 (2004-05-27) abstract paragraph '0020! Patent family members are listed in annex. Further documents are listed in the continuation of box C. *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the investigation. Special categories of cited documents: *A* document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to filing date involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-O document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled other means *P* document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 04/07/2005 15 June 2005 Authorized officer Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Carré, J

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No.							
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